## Appendix IV

## P03170US/WARF-0204

AATTACTAGATTTAAAAAAATACATTTTTTGGATCTTGAAAAGATATATTGTTTTGATTTGGATAAATTA TGAGAAAAATTAATAGAGGTGGATTTTTATTTCATTCAATAAGAAATGACATATAATAAGAATTTAAA TAGACCAAAAAGATGAGTAGAAGGCTÁTTTTTAGATCAAAGATGGATGGAGGGTATTTTTAGATCTTTTC AATTTTGTGTTACCAAATTAAATATATTTCTAAAACTATCCTGAAGGTAGTTAATACTTTTTAGTGTT GTATCATGTTTTAATATAAAATATTAAAATTTAGATGAAATTTACTTTCTAGTTAAATTGGTCAAAGTT GTAAGAATTTCAAGTGAAAGAGTTTTTAATAATTTCACTTTTATGCTATATATTTTTAAAGTTGAACGAC GTCCATGTGACATAATAAAAAACAATTCTCTTAAATAATCCTTTCATACTAATGATAAAAGAAAATATAT ATATATATATATTCTTTTTACAAATTGTGAATAGAGAAAAGGAAAATGGGGTAGCAATTACAAGGTA GCTTTGAGTTCTTTTCTTTATGGATCCCG

## SEO ID NO:5: Gene 2 protein sequence (from the resistant homolog)

- 26 MAEAFIQVLLDNLTSFLKGELVLLFGFQDEFQRLSSMFSTIQAVLEDAQEKQLNNKPLENWLQKLNAATY
  EVDDILDEYKTKATTFSQSEYGRYHFKVIFFRIKVGKRMDQVMKKLKAIAEERKNFHLHEKIVERQAVRR
  ETGSVLTEPQVYGRDKERDEIVKLIINNVSDAQHLSVLPILGMGGLGKTTLAQMVFNDQRVTEHFHSKIW
  ICVSEDFDEKRLIKAIVESIEGPPLLGEMDLAPLQKKLQELLNGKRYLLVLDDVWNEDQQKWANLRAVLK
  VGASGASVLTTTRLEKVGSIMGTLQPYELSNLSQEDCWLLFMQRAFGHQEEINFNLVAIGKEIVKKSGGV

  25 PLAAKTLGGILCFKREERAWEHVRDSPIWNLPQDESSILPALRLSYHQLPLDLKQCFAYCAVFPKDAKMK
  KEKLISLWMAHGFILSKGNMELEDVGDEVWKELYLRSFFQEIEVKDGKTYFMHDLIHDLATSLFSANTS
  SSNIREINKHSYTHMMSIGFAEVVFFYTLPPLEKFISIRVLNLGDSTFNRLPSSIGDLVHLRYLNLYGSG
  MRSLPKQLCKLQNLQTLDLQYCTKLCCLPKETSKLGSLNLLLDGSQSLTCMPPRIGSLTCLKTLGGFVV
  GRKKGYQLGELGNLNLYGSIKISHLERVKNDMDAKEANLSAKGNLHSLSMSWNNFGPHIYESEEVKVLEA
  LKPHSNLTSLKIYGFRGIHLPEMMNHSVLKNIVSILISNFRNCSCLPPFGDLPCLESLELHWGSADVEYV
  EEVDIDVHSGFPTRIFFPSLRKLDIWDFGSLKGLLKKEGEEQFFVLEEMIHECPFLTLSSNIRALTSLR
  ICYNKVATSFPEEMFKNLANLKYLTISRCNNLKELPTSLASLNALKSLKIQLCCALESLPEEGLEGLSSL
  TELFVEHCNMLKCLPEGLQHLTTLTSLKIRGCPQLIKRCEKGIGEDWHKISHIPNVNIYI
- 35 SEQ ID NO:6: Nucleic acid sequence of disease resistant gene, gene 3 (from the resistant homolog)

ATGGCTGAAGCTTTCCTTCAAGTTCTGCTAGATAATCTCACTTTTTTCATCCAAGGGGAACTTGGATTGG TTTTTGGTTTCGAGAAGGAGTTTAAAAAACTTTCAAGTATGTTTTCAATGATCCAAGCTGTGCTAGAAGA TGCTCAAGAGAAGCAACTGAAGTACAAGGCAATAAAGAACTGGTTACAGAAACTCAATGTTGCTGCATAT GAAGTTGATGACATCTTGGATGACTGTAAAACTGAGGCAGCAAGATTCAAGCAGGCTGTATTGGGGCGTT TGCAATTGCAGAGGAACGGAGGAATTTTCATTTAGATGAAAGGATTATAGAGAGACAAGCTGCTAGACGG CAAACAGGTTTTGTTTTAACTGAGCCAAAAGTTTATGGAAGGGAAAAAGAGGAGGATGAGATAGTGAAAA  ${\tt TCTTGATAAACAATGTTAGTTATTCCGAAGAAGTTCCAGTACTCCCAATACTTGGTATGGGGGGGACTAGG$ AAAGACGACTCTAGCCCAAATGGTCTTCAATGATCAAAGAATTACTGAGCATTTCAATCTAAAGATATGG GTTTGTGTCTCAGATGATTTTGATGAGAAGGGTTGATTAAGGCAATTGTAGAATCTATTGAAGGAAAGT CACTGGGTGACATGGACTTGGCTCCCCTCCAGAAAAAGCTTCAGGAGTTGTTGAATGGAAAAAGATACTT TCTTGTTTTGGATGATGTTTGGAATGAAGATCAAGAAAAGTGGGATAATCTTAGAGCAGTATTGAAGATT GGAGCTAGTGGTGCTTCAATTCTAATTACTACTCGTCTTGAAAAAATTGGATCAATTATGGGAACTTTGC CCAAACCGAAACAAGTCCTAAACTTATGGAAATCGGAAAGGAGATTGTGAAGAAATGTGGGGGTGTGCCT CTAGCAGCCAAAACTCTTGGAGGCCTTTTACGCTTCAAGAGGGAAGAAAGTGAATGGGAACATGTGAGAG TCTTCCACTTGATTTGACACAATGTTTTGCATATTGCGCAGTATTCCCAAAGGACACCAAAATAGAAAAG GAATATCTCATCGCTCTCTGGATGGCACACAGTTTTCTTTTTTCTAAAAGGAAACATGGAGCTAGAGGATG